MAGNAVOX

0000000 006053

FW58   Mini Hifi System

1/7/97

REFERENCE

Owner's manual
Mode d'emploi
Instructivo de manejo
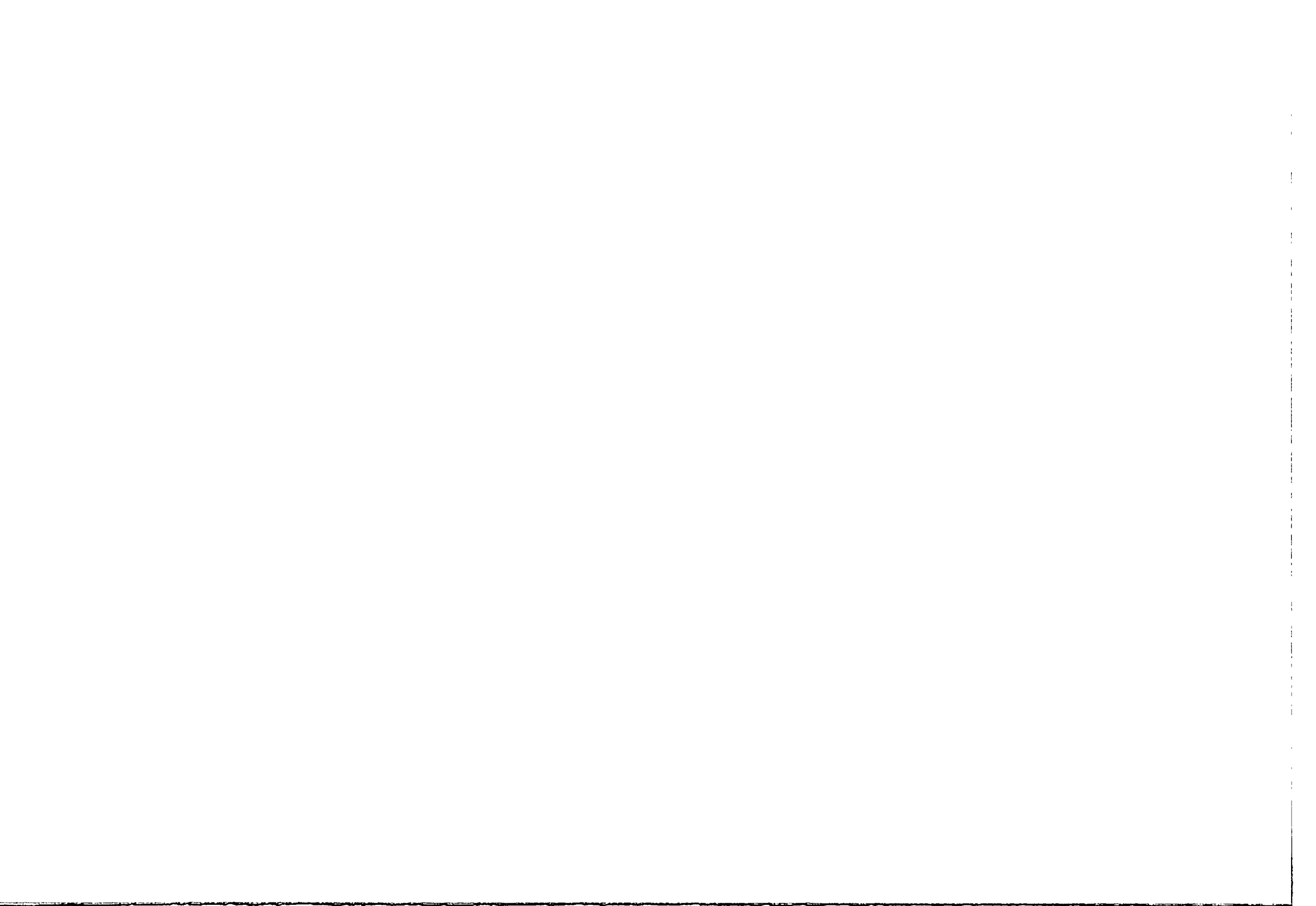
MAGNAVOX

Congratulations on your purchase, and welcome to the "family!"

Dear Magnavox product owner:

Thank you for your confidence in Magnavox. You've selected one of the best-built, best-backed products available today.

And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the Magnavox "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome—and thanks for investing in a Magnavox product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your Magnavox product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!
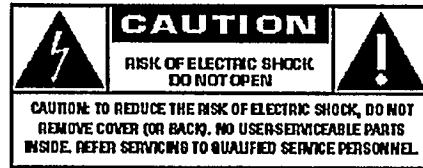
MAGNAVOX

Return your Warranty Registration card today to
ensure you receive all the benefits you're entitled to.

- Once your Magnavox purchase is registered, you're eligible to receive all the privileges of owning a Magnavox product.

- So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification
Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your Magnavox warranty.

Owner Confirmation
Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration
Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Know these *safety* symbols

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

For Customer Use
Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

MAC5097

⚡	**CAUTION**	⚠
	RISK OF ELECTRIC SHOCK DO NOT OPEN	

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

⚡ This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

⚠ This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

WARNING

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure.

The set complies with the FCC-Rules, Part 15 and with 21 CFR 1040.10.

Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

⚡	**AVIS**	⚠
	RISQUE DE CHOCS ÉLECTRIQUES NE PAS OUVRIR	

**Attention: Afin de prévenir le risque de chocs électriques,
no pas retirer les vis.
Toute réparation devrait être confiée à un personnel qualifié.**

⚡ Ce symbole indique la présence d'une tension suffisamment élevée pour engendrer un risque de chocs électriques.

⚠ Ce symbole indique que le manuel d'installation fourni avec l'appareil contient d'importantes recommandations quant au fonctionnement et à l'entretien de ce dernier.

AVIS

Afin de réduire tout risque d'incendie ou de choc électrique, il ne faut pas exposer cet appareil à la pluie ou à l'humidité.

ATTENTION

L'utilisation des commandes ou réglages ou le non-respect des procédures ci-incluses peuvent se traduire par une exposition dangereuse à l'irradiation.

L'appareil répond aux normes FCC, Part 15 et 21 CFR 1040.10.

Canada

Cet appareil numérique n'emet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Class B prescrites dans le Règlement sur le Brouillage Radioélectrique édicté par le Ministère des Communications du Canada.

⚡	**AVISO**	⚠
	RIESGO DE CHOQUE ELÉCTRICO NO ABRIR	

**Atención: Para reducir el riesgo do choque eléctrico,
no quite la tapa (o el panel posterior).
En su interior no hay piezas que el usuario pueda reparar.
Para servicio dirijase a personal calificado.**

⚡ Este símbolo tiene por finalidad advertir al usuario de la presencia de tensión peligrosa no aislada dentro de la caja del aparato, que puede ser lo suficientemente fuerte para constituir un peligro de choque eléctrico.

⚠ Este símbolo sirve para advertir al usuario de la presencia de instrucciones de manejo y mantenimiento (servicio) importantes en el manual que acompaña al aparato.

AVISO

Para reducir el riesgo de fuego o choque eléctrico, no exponga el aparato a la lluvia o humedad.

ATENCIÓN

El uso de mando o ajustes o la ejecucción de métodos que no sean los aquí descritos puede ocasionar peligro de exposición a radiación.

El aparato cumple las normas FCC, Parte 15 y 21 CFR 1040.10.

Mexico

Es necesario que lea cuidadosamente su instructivo de manejo.

⚠	**PRECAUCION - ADVERTENCIA**	⚠
	NO ABRIR, RIESGO DE CHOQUE ELECTRICO	
	ATENCION	
	VERIFIQUE QUE EL VOLTAJE DE ALIMENTACION SEA EL REQUERIDO PARA SU APARATO	

**PARA EVITAR EL RIESGO DE CHOQUE ELECTRICO, NO QUITE LA TAPA;
EN CASO DE REQUERIR SERVICIO, DIRIJASE AL PERSONAL AUTORIZADO DE PHILIPS.**

NOM

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**CLASS 1
LASER PRODUCT**

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub or swimming pool, or in a wet basement.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

CAUTION: To prevent electric shock, match the wide blade of this plug to the wide slot and fully insert. Do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.
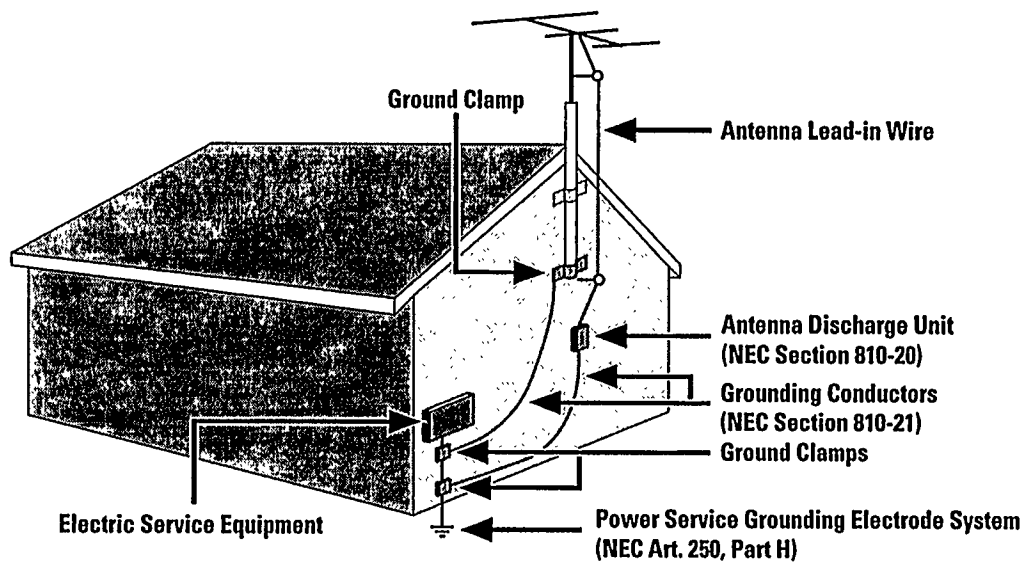
AC Polarized Plug

12. **Power Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
13. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
14. **Power Lines** - An outdoor antenna should be located away from power lines.
15. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.
Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure below.
16. **Nonuse Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
17. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
18. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged; or
    B. Objects have fallen, or liquid has spilled into the appliance; or
    C. The appliance has been exposed to rain; or
    D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
    E. The appliance has been dropped, or the enclosure damaged.
19. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

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Note to the CATV system installer
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electrical Code

Ground Clamp

Antenna Lead-in Wire

Antenna Discharge Unit
(NEC Section 810-20)

Grounding Conductors
(NEC Section 810-21)

Ground Clamps

Electric Service Equipment

Power Service Grounding Electrode System
(NEC Art. 250, Part H)

92/11

EL 4562-1

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LIMITED WARRANTY

AUDIO SYSTEM
One Year Free Labor
One Year Free Service on Parts
This product must be carried in for repair.

WHO IS COVERED?
You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?
Warranty coverage begins the day you buy your product. For one year thereafter, all parts will be repaired or replaced, and labor is free. After one year from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.
All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?
Your warranty does not cover:
• labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
• product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
• reception problems caused by signal conditions or cable or antenna systems outside the unit.
• a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
• incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)

• a product that is used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?
Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...
Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...
Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...
Take the product to a Philips factory service center (see enclosed list) or authorized service center for repair. When the product has been repaired, you must pick up the unit at the center. Centers may keep defective parts.
(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.).

TO GET WARRANTY SERVICE IN CANADA...
Please contact Philips at:

1-800-661-6162 (French Speaking)
1-800-363 7278 (English Speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...
Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.
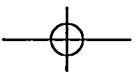
MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Service Company, P.O. Box 555, Jefferson City, Tennessee 37760, (423) 475-8869

EL496SE005 / MAC 4110 / 1-97

General Information

- The typeplate (which contains the serial number) is located at the rear of the set.
- Recording is permissible if copyright or other rights of third parties are not infringed.

1 All unnecessary packaging material has been omitted. We have tried to make the packaging easy to separate into three mono-materials:
  - cardboard (box)
  - expandable polystyrene (buffer)
  - polyethylene (bags, protective foam sheet).
  Please observe the local regulations regarding the disposal of these packaging materials.
2 Your set consists of materials which can be recycled and reused if disassembled by a specialized company. Please follow local regulations on recycling your old set.
3 Do not dispose of dead batteries with your household waste. Dispose of batteries according to local regulations.
4 Note: Switching off the standby mode overnight (remove the AC power cord from the wall socket) will save energy.

Accessories (Supplied)

- Remote control
- Batteries (2 x AAA) for remote control
- AM loop antenna
- FM antenna wire
- AC power cord

Accessories (Recommended)

- Model FB 201 active subwoofer

Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The type plate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the unit yourself, as this will invalidate the warranty!
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the unit until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- **To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.**
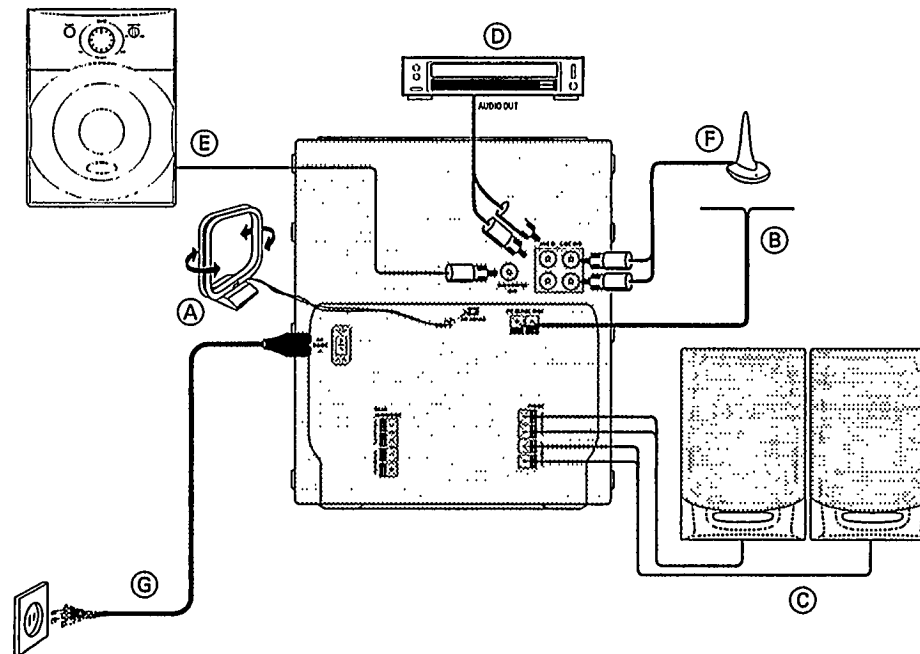
9
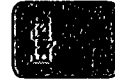
Inserting the batteries into the remote control

- Insert the batteries (Type R03 or AAA) into the remote control as shown inside the battery compartment.
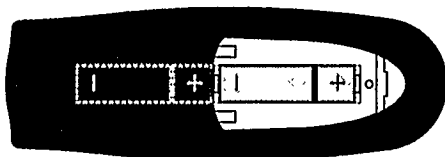
- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement use type R03 or AAA batteries.

Rear Connection

Ⓐ AM Antenna Connection

Connect the supplied loop antenna to the AM antenna terminal. Adjust the position of the AM loop antenna for the best reception.

Ⓑ FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM 300 Ω terminal. Adjust the position of the FM antenna for the best reception.

Outdoor Antenna
For better FM stereo reception connect an outdoor FM antenna to the FM ANTENNA 300 Ω terminal using a 300 Ω dipole wire.

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© Speaker Connections

You can connect the two supplied speakers or you can create a four-speaker system for surround sound using two extra speakers having an impedance of at least six ohms.
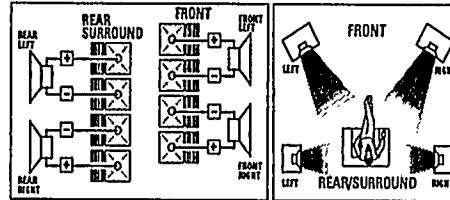
Two-speaker system (without surround connection)
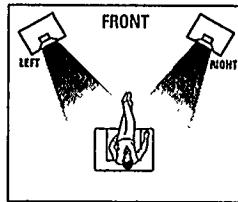
- Connect the right speaker to terminal **R**, with the red wire to **+** and the black wire to **−**.
- Connect the left speaker to terminal **L**, with the red wire to **+** and the black wire to **−**.
- Clip the stripped portion of the speaker wire as shown.
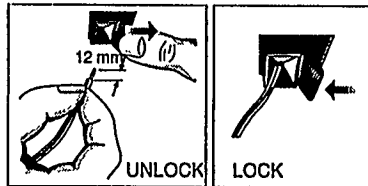
Four-speaker system (with surround connection)

- Connect the right speaker to terminal **R**, with the red wire to **+** and the black wire to **−**.
- Connect the left speaker to terminal **L**, with the red wire to **+** and the black wire to **−**.
- Clip the stripped portion of the speaker wire.

⑩ Connecting other equipment to your system

You can connect the TV, Laser Disc or VCR audio left and right output terminals to the AUX IN terminal at the rear of the system.

⑥ Subwoofer Out *(optional)*

You may connect an external active subwoofer (recommended Model FB 201) to the SUBWOOFER OUT socket to enhance the mini system. The subwoofer reproduces bass sound (e.g. explosions, the rumble of spaceships, etc.). Be sure to follow the instructions supplied with the subwoofer unit.

⑥ Line Out *(ready)*
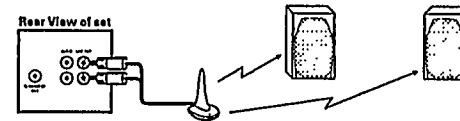
Line Out for remote active speakers

There is a possibility of locating additional front active speakers away from the system (e.g. in another room). It reduces the inconvenience of running long speaker wires across rooms. You can place as many remote speakers as you like provided that they operate at the same radio frequency. Connect the wireless radio frequency transmitter to the LINE OUT sockets. Place the active speakers at your preferred location. Be sure to follow the instructions supplied with the active speakers.

⑥ AC Power Supply

After all other connections have been made, connect the AC power cord to the set and to the wall outlet.

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Remote Control Functions

— First select the source you wish to control by pressing one of the source selection keys on the remote control (e.g. CD, TUNER, TAPE or VIDEO/AUX).
— Then select the desired function (PLAY, NEXT, etc.).

Note:
Whenever a remote control button is pressed, the source icon on the set display will flicker. This indicates the remote control signal is received by the set.
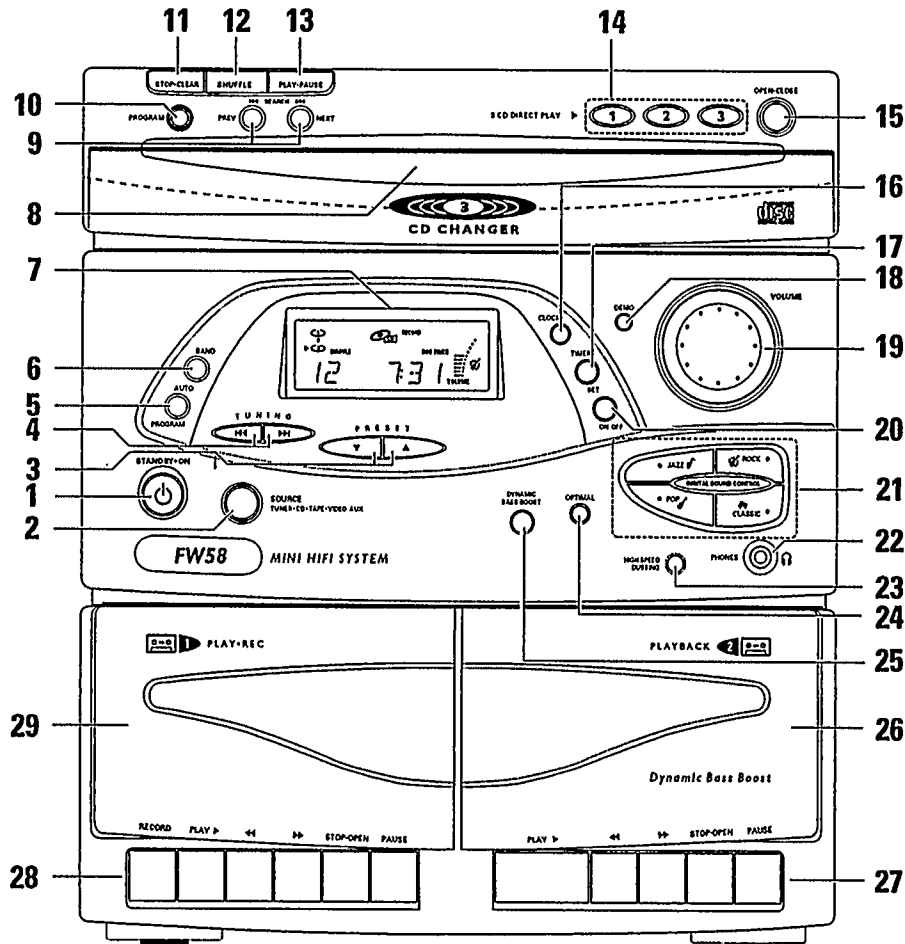
$\circlearrowleft$	.... to switch the unit to standby mode.
CD	.... to select CD mode.
VIDEO/AUX	.... to select VIDEO/AUX or external mode.
TAPE	.... to select TAPE mode.
TUNER	.... to select TUNER mode.
SHUFFLE	.... to play CD tracks at random.
DSC	.... to select digital sound control: JAZZ, ROCK, CLASSIC, POP or OPTIMAL.
DBB	.... to switch on and off dynamic bass boost.
DISC UP	.... to select the next disc tray for playback.
PROG. +/−	.... to select previous/next channel for TV/VCR.
VOL +/−	..... to adjust the TV volume (if the remote control operates the TV).
TV	.... to select TV mode.
PAUSE ❙❙	.... to interrupt CD playback.

◀◀ / ▶▶
   for TUNER .... to select a lower/higher frequency.
   for CD .... to search for a particular passage.
VOLUME +/− ...to adjust the volume of the system.
PLAY ▶ .... to start CD playback.
STOP ■ .... to stop CD playback .

❙◀ PREV. / NEXT ▶❙
   for TUNER .... to select a lower/higher tuner preset station.
   for CD .... to select previous/next CD track.

12
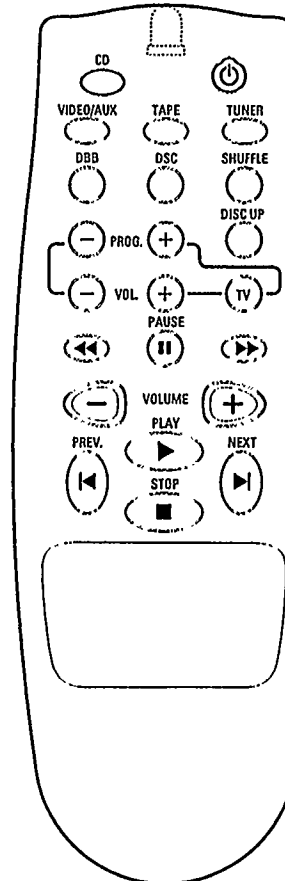
Front View

1 STANDBY-ON
– to switch the set on or to select standby mode.

2 SOURCE
– to select the following:

TUNER : to switch to Tuner mode.
CD : to switch to CD mode.
TAPE : to switch to Tape mode.
VIDEO/AUX : to switch to VIDEO/AUX mode (for external sources, e.g. TV, Laser Disc or VCR sound).

3 PRESET ▲ or ▼
– to select a radio station in memory. Also use for clock and timer setting.

4 TUNING |◄◄ or ►►|
– to tune to radio stations:

|◄◄ : lower frequencies
►►| : higher frequencies

Also use for clock and timer setting.

5 AUTO PROGRAM
– to program preset stations automatically or manually.

6 BAND
– to select the waveband: FM or AM.

7 DISPLAY
– to display the current setting of the set.

8 CD CAROUSEL TRAY

9 PREV / NEXT (|◄◄ SEARCH ►►|)
– to skip to the beginning of the current or previous/ next track or to search backward/forward.

10 PROGRAM
– to program CD tracks

11 STOP•CLEAR
– to stop CD playback or to clear a program.

12 SHUFFLE
– to play all the available discs and their tracks in random order.

13

13 PLAY•PAUSE
– to start or interrupt CD playback.

14 3 CD DIRECT PLAY ▶
– to select play for each CD tray.

15 OPEN•CLOSE
– to open or close the CD carousel tray.

16 CLOCK
– to set the clock.

17 TIMER SET
– to set the timer.

18 DEMO
– to display the various features offered by the system.

19 VOLUME
– to adjust the volume level.

20 TIMER ON•OFF
– to switch the timer on or off.

21 DIGITAL SOUND CONTROL (DSC)
– to select the desired sound effect : JAZZ, ROCK, CLASSIC or POP.

22 PHONES ⌒
– headphones jack.

23 HIGH SPEED DUBBING
– to dub from **TAPE DECK 2** to **TAPE DECK 1** at high speed.

24 OPTIMAL
– to select the sound setting that is tuned to the acoustics of the supplied speakers.

25 DYNAMIC BASS BOOST (DBB)
– to switch on bass boost to enhance bass response or to switch off bass boost.

26 TAPE DECK 2

27 TAPE DECK 2 CASSETTE OPERATION
– **PLAY ▶** : to start playback.
– **◀◀** : to rewind the cassette.
– **▶▶** : to fast forward the cassette.
– **STOP•OPEN** : to stop playback or to open the cassette compartment.
– **PAUSE** : to interrupt playback

28 TAPE DECK 1 CASSETTE OPERATION
– **RECORD** : to start recording.
– **PLAY ▶** : to start playback.
– **◀◀** : to rewind the cassette.
– **▶▶** : to fast forward the cassette.
– **STOP•OPEN** : to stop playback or to open the cassette compartment.
– **PAUSE** : to interrupt playback or recording.

29 TAPE DECK 1

Demo mode

The system has a demonstration mode that shows the various features offered by the system. Whenever the system is connected to an AC power source, the demonstration mode will start automatically.

To stop demonstration mode
* Press **DEMO, STANDBY - ON, SOURCE,** CD **OPEN•CLOSE** or **3 CD DIRECT PLAY** button on the system (or ⏻, **CD, TUNER, TAPE** or **VIDEO/AUX** on the remote control) to stop the demonstration.

To switch on demonstration mode
* Press **DEMO.**
→ The display will show "WELCOME TO THE AUDIO WORLD," then a demonstration of the various features will follow.
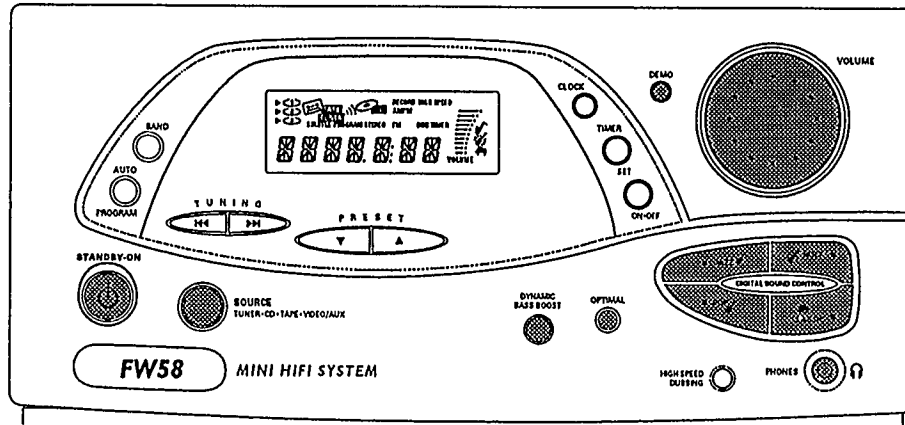
Important:
Before you begin operating the system, complete the preparation procedures.

Switching the system ON

* Press **STANDBY-ON** or **SOURCE** (or **CD, TUNER, TAPE** or **VIDEO/AUX** on the remote control).

Switching the system to standby mode

* Press **STANDBY-ON** again (or ⏻ on the remote control).

14

Optimal Sound

- Press **OPTIMAL** to hear the sound setting that is tuned to the acoustics of the supplied speakers.

Dynamic Bass Boost (DBB)

- Press **DBB** to enhance the bass response.
  → The DBB flag lights up.

Selecting the Sound Source

- Press **SOURCE** to select either TUNER, CD, TAPE or VIDEO/AUX (or **CD, TUNER, TAPE** or **VIDEO/AUX** on the remote control).
  → The display indicates the selected sound source.

You can also select the sound source directly by selecting the respective PLAY button or 3 CD DIRECT PLAY buttons for CD or the PRESET, BAND or TUNING button for TUNER mode.

Note:
For an external sound source, make sure that you have connected the audio left and right output terminals of the external equipment (TV, VCR or Laser Disc player) to the AUX IN terminals at the rear of the set.

Volume Adjustment

Turn **VOLUME** right or left (or press **VOLUME +** or **−** on the remote control) to increase or decrease the sound level.

For Personal Listening
Connect the headphones to the PHONES 𝕟 socket. The speakers will be muted.

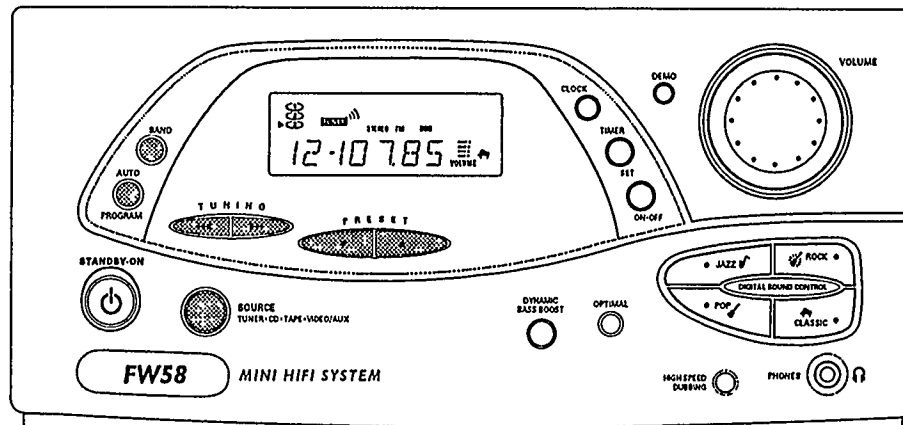## Digital Sound Control (DSC)

- To enjoy a special sound effect, press **JAZZ (✓)**, **ROCK (⚡)**, **CLASSIC (♪)** or **POP (✓)**.
- You can also press **DSC** on the remote control to select the respective sound setting, including **OPTIMAL**.

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Tuning to radio stations

1 Press **SOURCE** (or **TUNER** on the remote control) to select TUNER.
2 Press **BAND** to select the desired waveband: FM or AM.
3 Press **TUNING** I◄◄ or ►►I for more than one second.
   → The display will show '5EARCH' until a station with sufficient signal strength is found.
• Repeat this procedure until the desired station is reached.
• To tune to a weak station, briefly press **TUNING** I◄◄ or ►►I until the display shows the right frequency and/or when the best reception has been obtained.

Storing Preset Stations

You can store up to 20 stations in the memory. When a preset station is selected, the preset number appears next to the frequency on the display.

Automatic programming

1 Press **BAND** to select the desired waveband: FM or AM.
2 Press **AUTO PROGRAM** for more than one second to start the automatic programming.
   → PROGRAM flashes and 'AUTO' is displayed.
   → Every available station will be stored automatically. The frequency and preset number will be displayed briefly.
   → It will stop searching when all the available stations are stored or when 20 preset stations are stored.

• You can cancel the automatic programming by pressing **AUTO PROGRAM; TUNING** I◄◄ or ►►I ; **PRESET** ▼ or ▲; or **BAND**.

Note:
If you want to reserve a section of preset numbers, for example preset numbers 1 - 9, select preset 10 before starting automatic programming. Now only the preset numbers 10 to 20 will be programmed.

Manual programming

1 Press **AUTO PROGRAM** for less than one second.
   → PROGRAM flashes on the display.
2 Press **BAND** to select the desired waveband: FM or AM.
3 Press **TUNING** I◄◄ or ►►I to tune to the desired frequency.
4 Press **PRESET** ▼ or ▲ to select a preset number.
5 Press **AUTO PROGRAM** again.
   → PROGRAM disappears, and the station is stored.

• Repeat the above procedure to store other preset stations.

Tuning to Preset Stations

• Press **PRESET** ▼ or ▲ (or I◄ **PREV** or **NEXT** ►I on the remote control) to select the desired preset number.
   → The preset number, frequency and waveband appear on the display.

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Fast Forward/Rewinding

1 You can rewind or fast forward the cassette by pressing ◄◄ or ►►, respectively.
2 Press STOP•OPEN to stop fast forwarding or rewinding.

Note:
It is possible to fast forward or rewind a cassette when the set is in another source mode (e.g. TUNER, CD or VIDEO/AUX mode).

Continuous playback of two cassettes

1 Press SOURCE to select TAPE.
2 Load the cassettes in tape deck 1 and tape deck 2.
3 Press PLAY ► on tape deck 2.
4 Press PAUSE on tape deck 1.
5 Press PLAY ► on tape deck 1.
   → Playback will begin with tape deck 2 and will continue with tape deck 1 when tape deck 2 ends.
6 Press STOP•OPEN if you want to stop playback before the end of the cassette in tape deck 1 or tape deck 2.

Recording (TAPE DECK 1)

1 Press SOURCE to select TUNER, CD or VIDEO/AUX.
2 Load a blank cassette into tape deck 1.
3 Start playback of the TUNER, CD or VIDEO/AUX source. Press RECORD on tape deck 1 to start recording.
   → The RECORD flag starts flashing.
4 Press STOP•OPEN on tape deck 1 to stop recording.

Note:
During recording, it is not possible to listen to another sound source.

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Dynamic Bass Boost

Loading a cassette

- Press STOP•OPEN.
- The cassette compartment door opens.
- Load the cassette with the open side downward and the full spool to the left.
- Close the cassette compartment door.

Tape Playback

1 Press SOURCE (or TAPE on the remote control) to select TAPE.
2 Load the cassette into the desired cassette deck.
3 Press PLAY ► to start playback.
4 Press STOP•OPEN to end playback.

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Dubbing cassettes (from TAPE DECK 2 to TAPE DECK 1)

1 Load the pre-recorded cassette into **tape deck 2** and a blank cassette into **tape deck 1.**
→ Make sure that both cassettes have their full spools to the left.
• For high speed recording, press **HIGH SPEED DUBBING.**

| HIGH SPEED DUBBING |

→ HIGH SPEED appears on the display.
2 Press **PAUSE** on **tape deck 1.**
3 Press **RECORD** on **tape deck 1.**
→ RECORD appears on the display.
4 Press **PLAY ▶** on **tape deck 2.**
→ Recording will start automatically.
5 Press **STOP•OPEN** on **tape deck 1** and **tape deck 2** to stop dubbing.

Notes:
– *At the end of side A, flip the cassettes to side B and repeat the procedure. The tape deck does not have an auto-reverse function, so you must manually flip the cassette.*
– *Dubbing of cassettes is only possible in the Tape mode. To ensure good dubbing, use cassettes of the same length.*
– *During high speed dubbing operation in the Tape mode, the sound is reduced to a low volume.*

General Information

– For recording, use only a cassette of IEC type I (normal cassette).
– The tape in the cassette is secured at both ends with leader tape. At the beginning and end of a cassette, nothing will be recorded for six to seven seconds.
– The recording level is set automatically, regardless of the position of VOLUME.
– Check and tighten slack tape with a pencil before use. Slack tape may get jammed or may burst in the mechanism.
– To prevent accidental recording, break out the tab on the left shoulder of the cassette side you want to protect. To re-record the cassette, cover each hole with cellophane tape.

Erasure Prevention Tabs
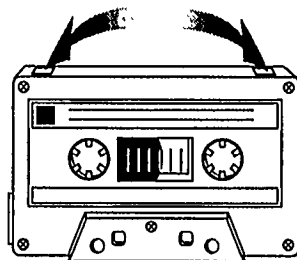
– C-120 tape is extremely thin and may be easily deformed or damaged. It is not recommended for use in this unit.
– Store the cassettes at room temperature and do not put them too close to a magnetic field (for example, transformers, TVs or speakers).

Warning!

1) This set is designed for conventional CDs. Do not use any accessories like disc stabilizer rings or CD treatment sheets, etc, which may damage the CD mechanism.
2) Do not load more than one disc into each tray.
3) When the CD changer is loaded with CD(s), do not turn over or shake the unit as this may jam the changer mechanism.

You can load up to three discs in the CD changer for continuous play without interruption. In addition to the conventional 12-cm disc, 8-cm discs can also be used without an adaptor.

Loading the CD Changer
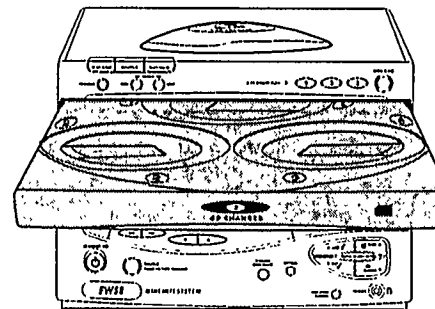
1 Press **SOURCE** (or **CD** on the remote control) to select CD.
2 Press **OPEN•CLOSE.**
→ The CD compartment slides out.
3 Load a disc with the **printed side up** in the right tray.
• You can load another disc in the left tray.

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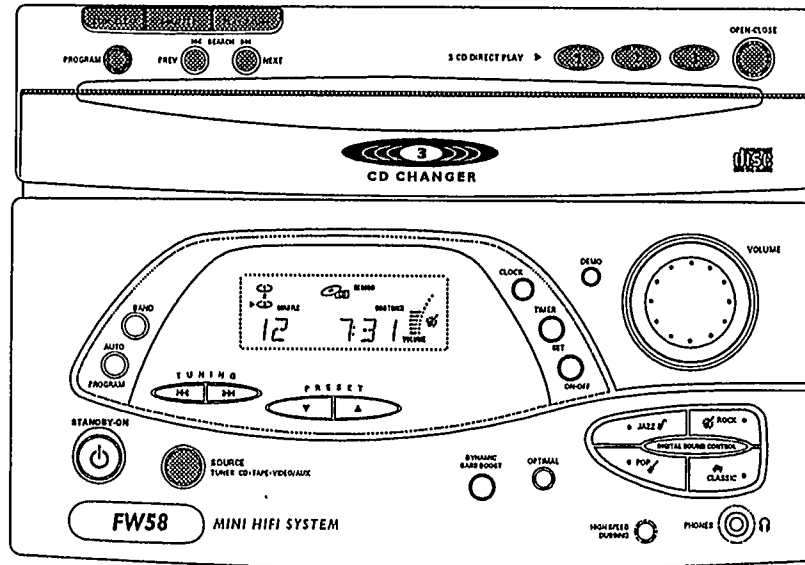
- To load the third disc, press the corresponding **3 CD DIRECT PLAY** button of the empty tray.
  - → The CD changer will rotate until the empty tray is at the right hand side and is ready for loading.
  - → Playback will always start with the outer right disc tray.
4 Press **OPEN•CLOSE** to close the CD compartment.
  - → The total number of tracks and the playing time of the last selected disc will appear on the display.

The following display indications will help you to know whether the disc trays are empty or loaded.

1 – indicates disc tray 1 is empty.

C2D – indicates disc tray 2 is loaded with a disc.

▶C3D – indicates disc 3 is the current or selected disc tray.

Playing a Disc

1 Press **PLAY•PAUSE** (or **PLAY ▶** on the remote control) to start playback.
   - → The disc tray, track number and elapsed playing time of the current track appear on the display.
   - To interrupt play, press **PLAY•PAUSE** (or **PAUSE ▌▌** on the remote control).
   - → The playing time flashes.
   - To resume play, press **PLAY•PAUSE** again (or **PLAY ▶** on the remote control).
2 To stop play, press **STOP•CLEAR** (or **STOP ▓** on the remote control).

Note:
All the available discs will play once, then stop. When the CD has stopped playing, the set will switch to the standby mode automatically after 15 minutes if no button is pressed.

When the CD tray is closed, you can play a CD directly by pressing the **3 CD DIRECT PLAY (1 - 3)** buttons on the set (or **DISC UP** button on the remote control). The CD player will stop at the end of playback of the selected disc.

Selecting a desired track

Selecting a desired track when playback is stopped
1 Press **PREV** or **NEXT** (**�i◀ PREV** or **NEXT ▶i** on the remote control) until the desired track appears on the display.
2 Press **PLAY•PAUSE** (or **PLAY ▶** on the remote control) to start playback.
   - → The selected track number and elapsed playing time appear on the display.

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Selecting a desired track during playback

1 Press **PREV** or **NEXT** (|◀ **PREV** or **NEXT** ▶| on the remote control) until the desired track appears on the display.
   → The selected track number and elapsed playing time appear on the display.
• If you press **PREV** once it will skip to the beginning of the current track and play the track again.

Searching for a particular passage during playback

• Press and hold **SEARCH** |◀◀ or ▶▶| (or ◀◀ or ▶▶ on the remote control) until the desired passage is located. During the search, the sound is played at a faster than normal rate and at a reduced volume. Playback returns to normal when **SEARCH** |◀◀ or ▶▶| is released.

Shuffle

SHUFFLE – playing all the available discs and their tracks in random order. It can also be used when tracks are programmed.

To shuffle all the discs and tracks
1 Press **SHUFFLE** (or **SHUFFLE** on the remote control).
   → "SHUFFLE" flashes briefly on the display.
   → The SHUFFLE flag, the disc and the track selected at random appear on the display.
• The discs and the tracks will now be played in random order until you press **STOP•CLEAR**.
2 Press **SHUFFLE** again to resume normal playback.
   → The SHUFFLE flag disappears from the display.

Programming Tracks

Programming tracks of a loaded CD is possible when CD playback is stopped. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL."

1 Load the desired discs in the disc trays.
2 Press **PROGRAM** to start programming.
   → The PROGRAM flag flashes on the display.
3 Press the desired disc button to select the disc.
4 Press **PREV** or **NEXT** to select the desired track.
5 Press **PROGRAM** to store the track.
• Repeat steps 3 to 5 to store other discs and tracks.
6 Press **STOP•CLEAR** once to end programming.
   → The total number of tracks programmed and total playing time will appear on the display.

Playing the program
1 Press **PLAY•PAUSE** to start program playback.
   → The track number and elapsed playing time of the current track will appear on the display.
2 Press **STOP•CLEAR** to stop program playback.

Note:
If you press any of the 3 CD DIRECT PLAY buttons, the set will play the selected disc, and the program will be ignored temporarily. The PROGRAM flag will also temporarily disappear from the display, then reappear when the playback for the selected disc ends.

Reviewing the program
Reviewing of a program is only possible when CD playback is stopped.
• Press **PREV** or **NEXT** repeatedly to review the programmed tracks.

Erasing the program (when playback is stopped)
• Press **STOP•CLEAR**.
   → "PROGRAM CLEARED" appears on the display.

Note:
The program is also erased when the set is disconnected from the power supply. If the CD carousel is opened, the tracks belonging to the outer two trays will be erased and "CLEARED" will flash on the display once.

CD Recording

During CD recording,
• it is not advisable to fast forward/rewind your cassette in TAPE DECK 2.
• it is not possible to listen to another sound source.

CD Recording
1 Load a blank cassette (full spool to the left) into **tape deck 1.**
2 Press **SOURCE** to select CD.
3 Load a disc into the disc tray.
4 Press **PREV** or **NEXT** to select the desired track. If desired, you can program the tracks in the order you want them to be recorded (see Programming Tracks).
5 Press **RECORD** on cassette **tape deck 1** to start recording.
   → The RECORD flag flashes on the display.
   → The CD starts playing.
6 Press **STOP•CLEAR** of the CD compartment and **STOP•OPEN** on cassette **tape deck 1** to stop recording.

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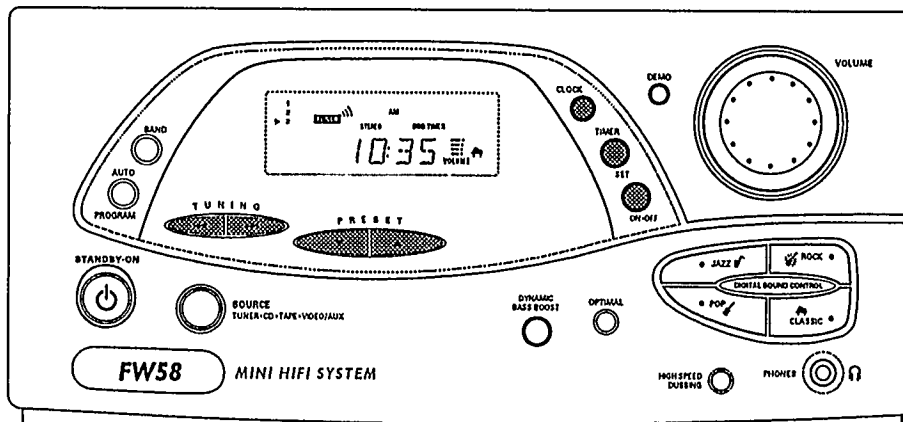
Setting the clock

The clock uses the 12 hour system, e.g. 1 PM or 12 AM.

1 Press **CLOCK**.
   → "*12:00* AM" starts flashing.
2 Set the hour with **PRESET ▼** or **▲**.
3 Set the minute with **TUNING I◄◄** or **►►I** .
4 Press **CLOCK** again to store the setting.
   → The clock starts running.

Note:
— *When a power interruption occurs, the clock settings are erased.*

Setting the Timer

● The system can switch on to TUNER or CD mode automatically at a preset time. It can serve as an alarm to wake you up. After half an hour from the preset time, the system will return to the standby mode.
● Before setting the timer, make sure the clock is set correctly.
● The timer works only once for each setting.
● **The volume of the timer will be at the last setting before the set is switched to standby mode.**

Timer Setting

1 Press **TIMER SET**.
   → The TIMER flag flashes.
2 Press **PRESET ▲** to select the desired sound source.
   → The display will switch as follows:
   TUNER → CD → TUNER ...
3 Press **TIMER SET** to confirm your selection.
   → The display will show "ON *12:00* AM" and "*12:00* AM" flashes.
4 Press **PRESET ▼** or **▲** to set the hour for the timer to start.
5 Press **TUNING I◄◄** or **►►I** to set the minutes for the timer to start.
6 Press **TIMER SET** to store the start time.
   → The TIMER is now set.
   → The TIMER flag remains lit.

To stop the TIMER
● Press **TIMER ON•OFF** on the set.
   → The TIMER is now off.

To start the TIMER again
● Press **TIMER ON•OFF** on the set.
   → The display will show the last set start time of the TIMER and its flag.
   → The TIMER flag remains lit.

Notes:
1. *If the source selected is TUNER, the last tuned frequency will be switched on.*
2. *If the source selected is CD, playback will begin with the first track of the last selected disc. If the CD trays are empty, the TUNER source will be selected instead.*

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Maintenance

Cleaning the Cabinet
- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs
- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for analog records.
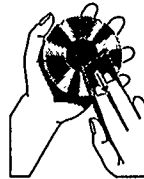
Cleaning the Heads and the Tape Paths
- To ensure good recording and playback quality, clean the heads Ⓐ and Ⓑ, the capstan Ⓒ, and pressure roller Ⓓ after every 50 hours of tape operation.

Ⓐ   Ⓑ Ⓒ Ⓓ
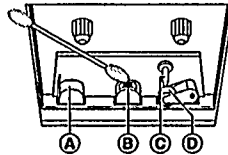
- Use a cotton swab slightly moistened with cleaning fluid or alcohol.

Demagnetizing the heads
- Use a demagnetizing cassette available at your dealer.

Specifications

AMPLIFIER
Output power (10% THD, 6 Ω, ±1 dB)
  2 channel (front only) .... 2 x 50 W RMS
  4 channel .... 4 x 10 W RMS
2 channel output only
  Power band width .... 40 - 20000 Hz
  Frequency response .... 40 - 20000 Hz
  Signal-to-noise ratio .... ≥ 75 dBA
  Stereo separation .... ≥ 50 dB (1 kHz)
Input sensitivity
  Auxiliary .... 350 mV
Outputs
  Speakers .... ≥ 6 Ω
  Headphones .... 32 Ω - 1000 Ω
Line out at rated input sensitivity .... 350 mV

TUNER
FM wave range .... 87.5 - 108 MHz
AM wave range .... 530 - 1700 kHz
Sensitivity at 300 Ω,
  26 dB S/N ratio, FM mono .... 13.8 µV
  46 dB signal-to-noise ratio, FM Stereo .... 309 µV
FM Frequency response .... 63 - 12500 Hz (±3 dB)
Signal-to-noise ratio .... ≥ 50 dBA
Total Harmonic Distortion .... < 3%

CD PLAYER
Frequency range .... 20 - 20000 Hz
Signal-to-noise .... ≥ 85 dBA
Channel separation .... ≥ 40 dB
Total harmonic distortion .... ≤ 65 dB

CASSETTE DECK
Frequency range
  Normal tape (type I) .... 80 - 12500 Hz (±5 dB)
Signal-to-noise ratio
  Normal tape (type I) .... ≥ 48 dBA
Wow and flutter .... ≤ 0.4% DIN

OUTPUT FOR ACTIVE SUBWOOFER *(optional)*
Output at maximum volume .... 1.5 V (±2 dB)
Output impedance .... ≤ 2000 Ω
Frequency response .... 20 - 20000 Hz (±3 dB)

MAIN UNIT
Material/finish .... Metal and polystyrene
Dimensions (w x h x d) .... 265 x 316 x 363 (mm)
Weight .... 7.1 kg approx.

SPEAKER BOX
Dimensions (w x h x d) .... 200 x 310 x 240 (mm)
Weight .... 3.3 kg approx.
Speaker woofer .... 1 x 5.25 inch
Speaker tweeter .... 1 x 2.5 inch
Speaker polydome tweeter .... 1 x 1 inch

Subject to modification

Warning! Under no circumstances should you try to repair the set yourself, as this will invalidate the warranty.

- If a fault occurs, check the points listed below before taking the set in for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

SYMPTOM	POSSIBLE CAUSE	REMEDY
RADIO RECEPTION		
The STEREO indicator flashes.	The signal is too weak.	Adjust the antenna.
Severe hum or noise.	The signal strength is too weak.	Adjust the antenna.
	The TV or VCR is too close to the stereo system.	Separate the stereo system from the TV or VCR.
		Connect an external antenna for better reception.
CASSETTE DECK OPERATION		
Recording is not possible.	No cassette in the cassette deck.	Insert a blank cassette into the cassette deck.
	The protection tab has been broken.	Put a piece of clear adhesive tape over the opening.
Recording or playback cannot be made or there	Dirty tape heads.	See section on cassette deck maintenance.
is a decrease in audio level.	Magnetic build-up in the record/playback head.	Use demagnetizing cassette.
Excessive wow or flutter, or sound drop-out.	Contamination of the capstans or pressure rollers.	See section on cassette deck maintenance.
CD PLAYER OPERATION		
"NO DISC" is displayed.	The disc is inserted upside down.	Place CD with printed side up.
	Moisture condensation.	Wait until lens has adjusted to normal room temperature.
	There is no disc in the CD tray.	Insert a CD.
	The CD is dirty, badly scratched or warped.	Replace or clean the CD.

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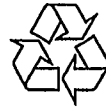## TROUBLESHOOTING GUIDE

GENERAL

Set not working.	Set does not react when buttons are pressed.	Press STANDBY-ON to switch the unit off, then switch it on again. Or, unplug the AC power plug from the wall outlet, then plug it in again.
No or poor sound.	Volume is not turned up.	Adjust VOLUME.
	The headphones are connected.	Disconnect the headphones.
	Speakers are not connected or are connected wrongly.	Check that the speakers are connected correctly.
		Make sure that the stripped speaker wire is clamped.
Reversed left and right sound.	Speakers are connected wrongly.	Check the speaker connections and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments.	Speakers are connected wrongly.	Check the speaker connection for proper phasing, red/black wires to red/black terminals.
Clock blinking.	There was a power disruption.	Reset the clock.
Remote control has no effect on the set.	The distance to the system is too large.	Reduce the distance.
	Batteries are inserted incorrectly.	Insert the batteries correctly.
	Batteries are exhausted.	Replace the batteries.
	Wrong sound source is selected.	Select the sound source before pressing the function button (PLAY, PREV./NEXT, etc.).
Timer not working.	Timer not on.	Press TIMER ON●OFF on the set to switch on the timer.
	Dubbing/recording is active.	Stop dubbing/recording.
"PRESS DEMO TO EXIT" is displayed.	Demo mode is switched on.	Press STANDBY-ON or DEMO to switch off the demo.

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